

Chemistry

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Scope

The purpose of this pathfinder is to introduce some of the resources available in Robert W. Woodruff Library on **CHEMISTRY**. This pathfinder is NOT a comprehensive listing of sources, but is intended to be a starting point for beginning research according to your specific needs.

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1. Dictionaries

Chemical Dictionary of Economic Plants edited by Jeffrey B. Harborne, *et.al.*

Location: REFERENCE QK861 .C45 2001

Chemically Speaking: A Dictionary of Quotations by Carl C. Gaither and Alma E. Cavazos-Gaither

Location: REFERENCE QD5 .C457 2002

Dictionary of Chemistry by Andrew Hunt

Location: REFERENCE QD5 .H837 1999

Dictionary of Environmentally Important Chemicals by David Ayers and Desmond Hellier

Location: REFERENCE TD196 .C45 A97 1998

Encyclopedic Dictionary of Chemical Technology by Dorit and Herman Noether

Location: REFERENCE TP9 .N64 1993

The Hutchinson's Pocket Dictionary of Chemistry

Location: NetLibrary Electronic Book QD5 .H88 2004

Wiley's English-Spanish, Spanish-English Chemistry Dictionary edited by Rolf Altschul and Sylvia Marquez-Pirazzi

Location: REFERENCE QD5 .K294 1998

2. Encyclopedias

Encyclopedia of Chemical Technology, Volumes 1-25 edited by Mary Howe-Grant
Location: REFERENCE TP9 .E685 1998

Encyclopedia of Clinical Toxicology: A Comprehensive Guide and Reference to the Toxicology of Prescription and OTC Drugs, Chemicals, Herbals, Plants, Fungi, Marine Life, Reptiles and Insect Venoms, Food Ingredients, Clothing and Environmental Toxins by Irving S. Rossoff
Location: REFERENCE RA1193 .R67 2002

Encyclopedia of Food Mycotoxins by Martin Weidenbörner
Location: REFERENCE RA1242 .M94 W454 2002

Encyclopedia of Inorganic Chemistry, Volumes 1-10 edited by R. Bruce King
Location: REFERENCE QD148 .E53 2005

McGraw-Hill Encyclopedia of Science and Technology, 15th Edition, McGraw-Hill, 2004.
Location: REFERENCE Q121 .M3 2004

3. Handbooks

Handbook of Chemical and Environmental Engineering Calculations by Joseph P. Reynolds
Location: REFERENCE TP168 .R49 2002

Handbook of Chemistry and Physics: A Ready-Reference Book of Chemical and Physical Data
Location: REFERENCE QD65 .H3 2006-2007

Handbook of Green Chemistry and Technology edited by James Clark and Duncan Macquarie
Location: REFERENCE TP155.2 .E58 H36 2002

Handbook of Molecular Descriptors edited by Roberto Todeschini and Vivianna Consonni
Location: REFERENCE TS420 .H36 2000

Handbook of Property Estimation Methods for Chemicals: Environmental and Health Sciences edited by Robert S. Boethling and Donald Mackay
Location: REFERENCE QD271 .H3186 2000

Handbook of Radical Polymerization edited by Krzysztof Matyjaszewski and Thomas P. Davis
Location: NetLibrary Electronic Book QD281 .P6 H29 2002eb

Handbook of Surface and Colloidal Chemistry edited by K.S. Birdi
Location: REFERENCE QD508 .H36 2003

Handbook of Wood Chemistry and Wood Composites edited by Roger M. Roswell
Location: MAIN STACKS TS932 .H36 2005

Handbook on the Physics and Chemistry of Rare Earths, Vol. 31, High-Temperature Superconductors, Pt. 2 edited by Karl A. Gschneider, LeRoy Eyring and M. Brian Maple
Location: REFERENCE QD172 .R2 H262 2001

Hansen Solubility Parameters: A User's Handbook by Charles M. Hansen
Location: REFERENCE QD543 .H258 2000

Hazardous Chemicals Handbook by Phillip Carson and Clive Mumford
Location: REFERENCE T55.3 .H3 C368 2002

Lange's Handbook of Chemistry, 16th Edition edited by James G. Speight
Location: REFERENCE QD65 .L36 2005

Methods in Agricultural Chemical Analysis: A Practical Handbook by N.T. Faithfull
Location: NetLibrary Electronic Book S593 .F19 2002eb

New Advances in Analytical Chemistry edited by Atta-ur-Rahman
Location: REFERENCE QD96 .N8 N48 2000

Organofluorines edited by A.H. Neilson
Location: MAIN STACKS QD3` .2 .O7 2002

Riegel's Book of Industrial Chemistry
Location: NetLibrary Electronic Book TP145 .R53 2003

The Role of Degenerate States in Chemistry edited by Michael Baer and Gert Due Billing
Location: NetLibrary Electronic Book QD453.3 .R65 2002eb

4. Spectral Data

The Aldrich Library of ¹³C and ¹H FT NMR Spectra, Volumes 1-3 edited by Charles J. Pouchert
Location: REFERENCE QD96 .F68 P67 1993

The Aldrich Library of FT-IR Spectra, Volumes 1-2 edited by Charles J. Pouchert
Location: REFERENCE QD96 .I5 P66 1983

The Aldrich Library of FT-IR Spectra, Volumes 3: Vapor Phase edited by Charles J. Pouchert
Location: REFERENCE QD96 .I5 P66 1983

The Aldrich Library of Infrared Spectra, Edition 3 edited by Charles J. Pouchert
Location: REFERENCE QD96 .I5 P67 1981

The Aldrich Library of NMR Spectra, Volumes 1-2 edited by Charles J. Pouchert
Location: REFERENCE QD96 .N8 P68 1983

5. Electronic Resources

Databases including GALILEO [<http://www.auctr.edu/resources/databases.asp>] (Proxy Account Required)

EBSCO Host Academic Search Complete
ProQuest Research Library
Wilson OmniFile Full Text Select

National Library of Medicine Databases

HAZMAP [<http://hazmap.nlm.nih.gov>] - Database containing information about hazardous chemicals and occupational diseases.

PubMed [<http://www.pubmed.gov>] - A search tool for accessing NLM's premier bibliographic databases, MEDLINE, and other databases. Written for health care professionals, PubMed contains over 12 million references dating back to 1966, and citations and author abstracts from 4600 journals. It provides links to other NLM-related resources and to full-text journals at websites of participating publishers.

TOXNET [<http://toxnet.nlm.nih.gov>] - A free web-based system of searchable databases from NLM's Toxicology and Environmental Health Information Program covering toxicology, environmental health, hazardous chemicals and toxic releases. Links are provided to other

searchable databases containing toxicology data such as HSDB (Hazardous Substances Data Bank), GENE-TOX (Genetic Toxicity), CCRIS (Chemical Carcinogenesis Research Information System), TOXLINE (Toxicology Literature Online), and TRI (Toxic Release Inventory).

Environmental Protection Agency [<http://www.epa.gov>]

Food and Drug Administration [<http://www.fda.gov>]

SciFinder SCHOLAR (Restricted Access - In Library or Campus Use Only) -SciFinder Scholar provides online access to accurate and comprehensive chemical and related scientific information. Databases include Chemical Abstracts, CAPLUSSM, REGISTRYSM, CASREACT, CHEMLIST, CHEMCAT and MEDLINE.

6. Print and Online[†] Journals

Accounts of Chemical Research [†]	Green Chemistry [†]
Analytical Chemistry [†]	Industrial & Engineering Chemistry/Archival [†]
Angewandte Chemie [†]	Industrial & Engineering Chemistry Research [†]
Annual Review of Biochemistry [†]	Inorganic Chemistry [†]
Annual Review of Physical Chemistry [†]	JACS: Journal of the American Chemical Society [†]
Atmospheric Chemistry & Physics [†]	Journal of Agricultural & Food Chemistry [†]
The Biochemical Journal [†]	Journal of Biochemistry & Molecular Biology [†]
Biochemistry [†]	Journal of Biological Chemistry [†]
Biochemistry & Cell Biology [†]	Journal of Carbohydrate Chemistry [†]
Bioconjugate Chemistry/Archival [†]	Journal of Chemical & Engineering Data/Archival [†]
Biotechnology Progress/Archival [†]	Journal of Chemical Information & Computer Sciences/Archival [†]
BMC Biochemistry [†]	Journal of Chemical Physics [†]
BMC Chemical Biology [†]	Journal of Combinatorial Chemistry/Archival [†]
Canadian Journal of Chemistry [†]	Journal of Medicinal Chemistry/Archival [†]
Chemistry Education [†]	Journal of Natural Products/Archival [†]
Chemical Educator [†]	Journal of Organic Chemistry [†]
Chemical & Engineering News [†]	Journal of Physical & Chemical Reference Data [†]
Chemical Research in Toxicology/Archival [†]	Journal of Physical Chemistry, Part A [†]
Chemical Reviews [†]	Journal of Physical Chemistry, Part B [†]
Chemical Week [†]	Journal of Porphyrins & Pthalocyanines [†]
Chemistry & Industry [†]	Journal of Proteome Research [†]
Chemistry International [†]	Journal of Thermoplastic Composite Materials [†]
Chemistry Letters [†]	Langmuir [†]
Chemistry of Materials [†]	Macromolecules [†]
Critical Reviews in Analytical Chemistry [†]	Organic Letters/Archival [†]
Critical Reviews in Biochemistry & Molecular Biology [†]	Organic Process Research & Development/Archival [†]
Education in Chemistry	Organometallics [†]
Energy & Fuels/Archival [†]	Proceedings of the National Academy of
Environmental Science & Technology [†]	Sciences [†]
European Chemical News [†]	Pure & Applied Chemistry [†]

Faraday Discussions[†]Science[†]

7. Scientific Societies

American Association for Clinical Chemistry <http://www.aacc.org>
American Chemical Society <http://www.acs.org>
American Institute of Chemical Engineers <http://www.aiche.org>
The American Institute of Chemists <http://www.theaic.org>
American Society for Mass Spectrometry <http://www.asms.org>
Association of Official Analytical Chemists <http://www.aoac.org>
The Chemical Institute of Canada <http://www.chem-inst-can.org>
Council for Chemical Research <http://www.ccrhq.org>
European Chemical Society <http://www.ecu.tu-bs.de>
Federation of European Chemical Societies and Professional Institutions <http://www.chemsoc.org>
International Union of Pure and Applied Chemistry <http://www.chem.qmw.ac.ul/iupac>
Royal Society of Chemistry <http://www.rsc.org>

8. Library of Congress Classifications

The following classifications provide an organizational scheme for materials relating to **Chemistry**. Be sure to browse the shelves nearby items in this bibliography to find related resources.

QD Chemistry

QD (1-65)	General Chemistry (Includes Alchemy)
QD (71-142)	Analytical Chemistry
QD (146-197)	Inorganic Chemistry
QD (241-441)	Organic Chemistry
QD (415-436)	Biochemistry
QD (450-801)	Physical and Theoretical Chemistry
QD (625-655)	Radiation Chemistry
QD (701-731)	Photochemistry
QD (901-999)	Crystallography

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